# Pelargonium Pinnacle®

*Pelargonium x hortorum*

## Zonal Geranium Propagation

### Tray & Rooting

<table>
<thead>
<tr>
<th>Feature</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>Vegetative Cutting</td>
</tr>
<tr>
<td>Rooting Hormone</td>
<td>Yes</td>
</tr>
<tr>
<td>Tray Size</td>
<td>32, 52, 72, 102 strip</td>
</tr>
<tr>
<td>Plants Per Cell</td>
<td>1</td>
</tr>
<tr>
<td>Days In Mist</td>
<td>8-16</td>
</tr>
<tr>
<td>Wks. From Stick To Transplant</td>
<td>3-4</td>
</tr>
<tr>
<td>Pinch?</td>
<td>No</td>
</tr>
<tr>
<td>Days To Pinch</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Fertility

<table>
<thead>
<tr>
<th>Feature</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fertilize Through Mist?</td>
<td>No</td>
</tr>
<tr>
<td>Fertilizer Rate</td>
<td>Moderate: 100-150 ppm N (20-10-20 constant feed)</td>
</tr>
<tr>
<td>EC Range</td>
<td>Moderate (1.0-1.5 mS via SME)</td>
</tr>
<tr>
<td>pH Range</td>
<td>6.0-6.4</td>
</tr>
</tbody>
</table>

### Temperature

<table>
<thead>
<tr>
<th>Feature</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vernalization Required?</td>
<td>No</td>
</tr>
<tr>
<td>Average Soil Temperature</td>
<td>68-72°F (20-22°C)</td>
</tr>
<tr>
<td>Average Air Temperature</td>
<td>65-72°F (18-22°C)</td>
</tr>
</tbody>
</table>

### Irrigation Frequency

Level 4: Keep media moderately moist at all times

### Light (Supplemental)

No

### Shade

Keep light intensity between 700-1200 fc (7500-12900 lux) until callus formation, 2000-2500 fc (21500-26900 lux) during root initiation, and 2500-4000 fc (26900-43100 lux) for toning.

### Potential Diseases

Xanthomonas, Rhizoctonia, Botrytis

### Potential Pests

Thrips, aphids, fungus gnats

### PGR Suggestions

- 1,500-2500 ppm Daminozide (85%) spray
- Ethephon (3.9%) at 350-500 ppm can be used for bud removal and branching 12-21 days after stick (when liners are rooted). Do not apply within 6-8 weeks of ship date.

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**Cultivar List**

Apple Blossom, Dark Red

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**Tips**

- Apply a 200 ppm IBA spray (or equivalent product) within 24 hours of sticking to aid root formation.

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### FINISHING

**PELARGONIUM PINNACLE®**

*Pelargonium x hortorum*

<table>
<thead>
<tr>
<th>CONTAINER SIZE</th>
<th>PLANTS PER POT</th>
<th>EARLY SEASON</th>
<th>MIDDLE SEASON</th>
<th>LATE SEASON</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 in. (10 cm)</td>
<td>1</td>
<td>7-9</td>
<td>6-8</td>
<td>5-7</td>
</tr>
<tr>
<td>6 in. (15 cm)</td>
<td>1-2</td>
<td>8-10</td>
<td>7-9</td>
<td>6-8</td>
</tr>
<tr>
<td>8 in. (19 cm)</td>
<td>2-3</td>
<td>8-11</td>
<td>7-9</td>
<td>6-9</td>
</tr>
<tr>
<td>10 in. (22 cm)</td>
<td>3-4</td>
<td>9-12</td>
<td>8-11</td>
<td>8-12</td>
</tr>
</tbody>
</table>

**FERTILITY**

- **Fertilizer Rate**: Moderate: 125-200 ppm N (15-5-15 at or similar calcium-nitrate formula alternated with 20-10-20)
- **EC Range**: High (2.0-2.5 mS via SME)
- **pH Range**: 6.0-6.4

**TEMPERATURE**

- **Day Temperature**: 65-75°F (18-24°C)
- **Night Temperature**: 58-62°F (14-17°C)

**IRRIGATION**

- **Irrigation Frequency**: Level 4: Keep media moderately moist at all times

**LIGHT**

- **Daylength Neutral?**: Yes
- **Supplemental**: No
- **Benefits From Shade?**: No

**PINCHING**

- **Finishing Pinch?**: No

**POTENTIAL DISEASES**

- Xanthomonas, Rhizoctonia, Botrytis,

**POTENTIAL PESTS**

- thrips, aphids, fungus gnats

**PGR SUGGESTIONS**

- 500-1250 ppm Chormequat (11.8%) as needed
- 1200 ppm Chormequat (11.8%) + 2500 ppm Daminozide (85%) tank mix

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**ZONAL GERANIUM**

'TAppleblossom'

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ZONAL GERANIUM
FEATURES AND BENEFITS

PELARGONIUM PINNACLE®
*Pelargonium x hortorum*

DESCRIPTION

Pinnacle® is a mid-season zonal geranium series with medium vigor.

KEY GARDEN INFORMATION

<table>
<thead>
<tr>
<th>Exposure</th>
<th>Full Sun to Partial Shade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>18-24 inches (46-61 cm)</td>
</tr>
<tr>
<td>Garden Spacing</td>
<td>18-24 inches (46-61 cm)</td>
</tr>
<tr>
<td>Watering instructions</td>
<td>Allow soil to dry slightly between thorough waterings.</td>
</tr>
<tr>
<td>Hardiness Zone</td>
<td>10-12</td>
</tr>
</tbody>
</table>

CONSUMER APPEAL

- Upright habit with excellent branching and a high bloom count.

GARDEN ATTRIBUTES

- If planted in the landscape, Pelargonium prefer rich well-drained soils. However, they can tolerate heavy clay soils if not overwatered.
- Although not favored by bees, the long bloom season and bright flowers of Pelargonium naturally attract hummingbirds. Additionally, their recognizable foliage aroma is a natural deterrent to rabbits, deer, and herbivorous insects.
- Pelargonium can be overwintered indoors for extended seasonal interest.

NATIVITY

Of hybrid origin: parental lineages native to Southern Africa.

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